

MN GENE AND PROTEIN

ABSTRACT OF THE DISCLOSURE

5 A new gene--MN--and proteins/polypeptides encoded
therefrom are disclosed. Recombinant nucleic acid molecules
for expressing MN proteins/polypeptides and recombinant
proteins are provided. Expression of the MN gene is
disclosed as being associated with tumorigenicity, and the
invention concerns methods and compositions for detecting
and/or quantitating MN antigen and/or MN-specific antibodies
10 in vertebrate samples that are diagnostic/prognostic for
neoplastic and pre-neoplastic disease. Test kits embodying
the immunoassays of this invention are provided. MN-
specific antibodies are disclosed that can be used
diagnostically/prognostically, therapeutically, for imaging,
and/or for affinity purification of MN proteins/
15 polypeptides. Also provided are nucleic acid probes for the
MN gene as well as test kits comprising said probes. The
invention also concerns vaccines comprising MN
proteins/polypeptides which are effective to immunize a
20 vertebrate against neoplastic diseases associated with the
expression of MN proteins. The invention still further
concerns antisense nucleic acid sequences that can be used
to inhibit MN gene expression, and polymerase chain reaction
(PCR) assays to detect genetic rearrangements.